

In the Claims

Please cancel claims 1-28, without prejudice.

Please add new claims as follows:

CLAIMS

1 **--29.** A method for providing broadcast discovery in a network, the method comprising:
2 in response to a reset of a 1394 bus, generating advertised discovery information
3 by every device connected to the 1394 bus;

4 receiving the advertised discovery information of every device connected to the
5 1394 bus by each discovering device in the network; and
6 each discovering device maintaining a list of devices in the network and a list of
7 services associated with each device in the network using the advertised discovery
8 information.

1 **30.** The method of claim **29** wherein the network comprises two or more 1394 buses
2 coupled via a 1394 bridge.

1 **31.** The method of claim **29** wherein each device in the network is any one of a
2 consumer electronic device, a peripheral device, a cable modem, and a personal
3 computer.

1 **32.** The method of claim **29** wherein the advertised discovery information includes
2 device and service information.

1 **33.** A method for providing a broadcast discovery in a network having one or more
2 1394 buses, the method comprising:
3 sending a solicit packet to a plurality of network devices by a discovering device,
4 the solicit packet containing a bus identifier;
5 generating advertised discovery information by any of the plurality of network
6 devices that is coupled to a bus with an identifier corresponding to the bus identifier in
7 the solicit packet; and
8 the discovering device receiving the generated advertised discovery information
9 and utilizing the generated advertised discovery information to maintain a list of the
10 plurality of network devices and a list of services associated with each of the plurality of
11 network devices.

1 **34.** The method of claim **33** wherein each of the plurality of network devices is any
2 one of a consumer electronic device, a peripheral device, a cable modem, and a personal
3 computer.

1 **35.** The method of claim **33** wherein the bus identifier in the solicit packet is a global
2 bus identifier that corresponds to each bus in the network.

1 **36.** The method of claim **33** wherein the bus identifier in the solicit packet is an
2 identifier of a certain bus in the network.

1 **37.** The method of claim **33** wherein the advertised discovery information includes
2 device and service information.

1 **38.** A network comprising:
2 one or more 1394 buses; and
3 a plurality of network devices connected to the one or more 1394 buses, each of
4 the plurality of network devices generating advertised broadcast information upon a reset
5 of a 1394 bus coupled to said each of the plurality of network devices and upon a receipt
6 of a solicit packet containing a bus identifier corresponding to an identifier of a 1394 bus
7 coupled to said each of the plurality of network devices, the plurality of network devices
8 including one or more discovering devices to receive the generated advertised broadcast
9 information and to maintain a list of the plurality of network devices and a list of services
10 associated with each of the plurality of network devices based on the generated advertised
11 broadcast information.

1 **39.** The network of claim **38** wherein each of the plurality of network devices is any
2 one of a consumer electronic device, a peripheral device, a cable modem, and a personal
3 computer.

1 **40.** The network of claim **38** wherein the bus identifier in the solicit packet is a global
2 bus identifier that corresponds to each bus in the network.

1 **41.** The network of claim **38** wherein the bus identifier in the solicit packet is an
2 identifier of a certain bus in the network.

1 **42.** The network of claim **38** wherein the advertised discovery information includes
2 device and service information.

1 **43.** A computer readable medium that provides instructions, which when executed on
2 a processor, cause said processor to perform operations comprising:

3 receiving advertised discovery information generated by every device connected
4 to a 1394 bus upon a reset of the 1394 bus; and

5 maintaining a list of network devices and a list of services associated with each of
6 the network devices using the advertised discovery information.

1
1 **44.** The computer readable medium of claim **43** wherein the advertised discovery
2 information includes device and service information.

1 **45.** A computer readable medium that provides instructions, which when executed on
2 a processor, cause said processor to perform operations comprising:

3 sending a solicit packet to a plurality of devices in a network, the solicit packet
4 containing a bus identifier;

5 receiving advertised discovery information generated by any of the plurality of
6 devices that is coupled to a bus with an identifier corresponding to the bus identifier in
7 the solicit packet; and
8 utilizing the generated advertised discovery information to maintain a list of the
9 plurality of devices and a list of services associated with each of the plurality of devices.

1 46. The computer readable medium of claim 43 wherein the advertised discovery
2 information includes device and service information.--